## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

4

5

6

7

8

9

10

11

12

- (Currently amended) A system for permitting orderly shutdown of electronic
   components, the system comprising:
- an enclosure having an interior surface;
  - one or more electronic components positioned within the enclosure;
    - at least one fan positioned within the enclosure for generating an airflow across the one or more electronic components;
      - a heat exchanger for cooling the airflow; and
    - a <u>plurality of phase change material layers disposed upon the interior</u>

      <u>surface, at least one of the layers exposed to the airflow within the enclosure</u>

      generated by the fan for absorbing heat from the airflow upon a failure

      associated with the heat exchanger, a first of the phase change material layers

      having a phase change temperature different from a second of the phase change

      material layers.
- 1 2. (Currently amended) The system according to claim 1, wherein at least one of
  the layers of the phase change material has a phase change temperature that is
  above a temperature of the airflow when there is no failure associated with the
  heat exchanger, and below a maximum operating temperature of the one or
  more electronic components.
- 1 3. (Original) The system according to claim 1, wherein the heat exchanger is a fluid to air heat exchanger.
- 1 4. (Original) The system according to claim 3, wherein the fluid to air heat exchanger is coupled to a fluidic circuit.

- 1 5. (Original) The system according to claim 4, wherein the fluidic circuit circulates one of a refrigerant and water.
- 1 6. (Original) The system according to claim 1, wherein the heat exchanger is a thermoelectric device.
- 7. (Original) The system according to claim 1, wherein the phase change material is enclosed in a heat conductive container.
- 1 8. (Original) The system according to claim 7, wherein the container includes fins.
- 9. (Previously presented) The system according to claim 1, wherein the phase change material is in micro-encapsulated form that is embedded in a coating applied to one or more interior surfaces of the enclosure.
- 1 10. (Previously presented) The system according to claim 1, wherein one or more 2 interior surfaces of the enclosure is coated with the phase change material, the 3 phase change material encapsulated by a sealing coat.
- 1 11. (Original) The system according to claim 1, further comprising:

2

3

4

- a temperature sensor for sensing temperature within the enclosure; and a high-temperature indication indicative of a high temperature within the enclosure, the high temperature being lower than a phase change temperature of the phase change material.
- 1 12. (Original) The system according to claim 1, wherein the phase change material is a material chosen from the group of materials consisting of a paraffiin, a hydrated salt, a metal, an alloy and an organic acid.
- 1 13. (Original) The system according to claim 1, wherein the at least one fan substantially recirculates air within the enclosure.

- 1 14. (Original) The system according to claim 1, wherein the one or more electronic components includes at least one blade server.
- 1 15. (Currently amended) A method for cooling one or more electronic components positioned in an enclosure, the method comprising:

providing an air cooling element within the enclosure;

3

4

5

6

7

8

9

3

4

generating an airflow across the cooling element and one or more electronic components positioned within the enclosure; and

cooling the airflow using a <u>plurality of layers of phase change material</u> upon a failure in the cooling element, the phase change material positioned within on an interior surface of the enclosure and exposed to the airflow within the enclosure generated by the fan.

- 1 16. (Original) The method according to claim 15, wherein providing the air cooling element includes:
  - moving fluid through a fluidic circuit, the fluidic circuit including a fluid to air heat exchanger.
- 1 17. (Original) The method according to claim 16, further comprising pumping one of a water and a refrigerant through the fluidic circuit.
- 1 18. (Original) The method according to claim 15, wherein the air cooling element is a thermoelectric device.
- 1 19. (Original) The method according to claim 15, further comprising providing an indication indicative of a high temperature condition within the enclosure.
- 1 20. (Original) The method according to claim 15, further including shutting down the one or more electronic components upon a failure in the fluidic circuit.

1	21.	(Original) The method according to claim 15, wherein the phase change material
2		has a melting point that is above a temperature of the airflow when there is no
3		failure in the air cooling element, and below a maximum operating temperature of
4		the one or more components.
1	22.	(Original) The method according to claim 15, further comprising enclosing the
2		phase change material in a container.
1	23.	(Original) The method according to claim 15, further comprising encapsulating
2		the phase change material in a surface positioned within the airflow.

- 1 24. (Original) The method according to claim 15, further comprising:
  2 applying the phase change material to a surface positioned within the
  3 airflow; and
  4 applying a sealing coat on top of the phase change material.
- 1 25. (Original) The method according to claim 15, wherein the one or more electronic components includes at least one blade server.
- 26. (Currently amended) A cooling system comprising: 1 an enclosure; 2 one or more electronic components positioned within the enclosure; 3 means for generating an airflow across the one or more electronic 4 components; 5 cooling means for cooling the airflow; and 6 a phase change material at least partially comprising a hydrated salt and 7 positioned within the enclosure in the airflow generated by the fan, the phase 8 change material for absorbing heat from the airflow upon a failure in the cooling 9

means.

1 27. (Original) The cooling system according to claim 26, wherein the means for generating the airflow includes a fan.

- 1 28. (Original) The cooling system according to claim 26, wherein the cooling means 2 includes a fluid to air heat exchanger.
- 1 29. (Original) The cooling system according to claim 28, wherein the fluid to air heat
  2 exchanger is coupled to a fluidic circuit that circulates one of a refrigerant and
  3 water.
- 1 30. (Original) The cooling system according to claim 26, wherein the cooling means includes a thermoelectric device.
- 1 31. (Original) The cooling system according to claim 26, wherein the phase change material is enclosed in a container.
- 1 32. (Original) The cooling system according to claim 31, wherein the container includes fins for dissipating heat.
- 1 33. (Original) The cooling system according to claim 26, wherein the phase change material is encapsulated in a surface positioned within the airflow.
- 1 34. (Previously presented) The cooling system according to claim 26, wherein one 2 or more interior surfaces of the enclosure is coated with the phase change 3 material, the phase change material encapsulated by a sealing coat.
- 1 35. (Original) The cooling system according to claim 26, wherein the phase change 2 material is a material chosen from the group of materials consisting of a paraffiin, 3 a hydrated salt, a metal, an alloy and an organic acid.

1 36. (Original) The method according to claim 26, wherein the one or more electronic components includes at least one blade server.